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Martini Lister M. D. e. S. R. Lond. de FONTIBUS MEDICATIS Angliæ, Exercitatio altera. Londini in Octav. 1684.

Formerly gave an Account to this Society, of the first Exercitation I published of the Medical Waters of Spans of England; what I have fince added to the second Edition of that Exercitation, I have already discoursed in a Paper to this Society. As the Examination of all the Inland salt Springs, or Brine Pits called Wiches; also concerning the specifical difference of Sea salt from the Salt of those Inland Brine Pits, &c.

I shall proceed to entertain you with a short Account of the 21. Exercitation, now first published, of the Medicinal uses of the said Waters.

And because I could not well be understood when I had occasion to reason of Physical Matters, unless I premised my own thoughts (how true I leave it to others to judge) and for that the main business of health and sickness seemed to me to depend most upon the due concoction of meat in the Stomach, and the good and bad condition of the humours of the Body resulting there from; I have thought it sufficient to explain my self upon these matters; There being (in my Opinion) little else required, to account for all the *Phænomena* of health and sickness, and the right application of Medicines

Concoction I have explained by Putrifaction, for that I fee no cause to think the change and resolution of meats and drinks to be differently made in the stomach of Animals, from what they are in the open Air; because the capacity of the Stomach and Guts, are verily an other outside of them. The Tabesaction of meat and drink is only therein hast ned, and sooner performed; as, for example Wine or Beer, which do not sower of themselves of some time

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time in the open Air, do yet turn to meer Vinegar in the Stomach in a trice; and so it is to be understood of the speedy rotting of more solid meats therein.

I have confirmed this Doctrine with many other Arguments, which I refer too, to the Treatife it felf.

Now because meats that putrifie, whether of the Herb kind, or of Fish or Flesh, do all therefore abound with volatil and urinous Salt; it is necessary that this Chyle in like manner should be salt: And as it is the great business of Nature, on the one hand, by the Laitea, to clear the Chyle of the silth of the grosser Excrements; so, after its admission into the habit of the Body, to purge it still of this necessary evil, viz. the urinous Salt, by the Kidnies.

That the Chyle is attracted and fucked into the habit of the Body by the Lacteæ; which are the only true mouths of the Body.

That the Chyle first looses its Opacity and whiteness, and becomes limpid in the blood Veins.

That the limpid Serum is the old Chyle; which is not diftinct from the Lympha.

That the Lympha or Serum is ever a humour totally distinct from the red part of the blood, which turns grumous when cold.

That from those two primary humours, all the other secreted humours of the Body are made.

As from the red grumous Blood, Choller alone: From the new Chyle, Urine. From the fame a little cleanfed, Milk: from the Lympha, Spittle: from the most pure Lympha, the genital humour.

That the cause of secretion is the Pulse its manner is explained by a magnetic Attraction which each secreted humour hath of its like; also the suction of the secretory Vesters

fels is afferted; which we think as reasonable to insist on, for the Exit of the humours, as to the Lailea for the Entrance of the Chyle into the Body: both the Lailea and all the secretory Vessels being from capillary beginnings not unlike, inlarged in their progress, these outwards, and those inwards.

That the fecretion of the Urine is made, at the same time, with the separation of the Lympha; both participating of the same colour, if the Serum of the Blood shall chance to be vitiated.

That the rest of the humours, as the Pituita, Milk, the Genital Humour, are never coloured tho vitiated; because they undergo a third secretion at the least.

That the fecretion of Choler is very flow; and for that purpose the Blood is circulated through the Liver by veins only; and this ought to be so, because the red Blood, from which only it is separated, is not much, herhaps, scarce as $\frac{1}{12}$; and likewise consists of very thick and heavy parts, which therefore seem to require more time in the separation; and altho the secretory Vessels in the Liver are very numerous, yet, where they joyn, the common Dustus is narrow, and very disproportionate.

On the other hand the Pituita is thin, and hath many Exits, and infinite Vessels to purge it; as being separated from the great Mass of the Lympha or Serum in the Veins.

Thus much as to the humours in a natural and healthful State: The humours are thus understood to be vitiated.

That the Piuita springing out from innumerate sountains in the Mouth, Stomach and Guts; also the Choler in the Duodenum from its there inserted Orifice; because they are still carryed on farther in the Guts, do often re-enter the Body by the Lattea, weakened upon any Occasion.

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Whenever this readmission of Choler and Pituita happens by the Latter (which it does in most Diseases) we are then sick; the Primary and radical Humours of the Body being contaminated with their own Excrements; which had been once expelled.

So that the Antients are best understood in this sense, when they tell us, that Pivuita causes cold Diseases, and Choler, hot ones: that is, the extraneous Pivuita and Choler readmitted; not that the habit of the Body did abound with them, or breed them now in greater quantities; but instead of a total ejection, the evil guests iteal in again, and Nature labours as it was in vain.

That the Chyle it felf too, is often in fault, and is to be reckoned amongst the vitiating Humours, viz. where it is too plentiful from much feeding; or made of Aliments, that rot not kindly in the Stomach; this also is to be ejected as supervacaneous.

From these few things the symptoms of most Diseases are very easily to be accounted for; As the various affections of the Urine, the Spittle, Sweat, &c. Why it is bilious, and fometimes pale and thick, &c. Why this is naturally sweet and thin; sometimes acid and saltish; and and fometimes thick like pus, &c. and the like, viz. according as this or that humour shall be mixt Crude and superfluous Chyle or extraneous Choler and Pituita readmitted, or with the red blood it felf. Hence also true Indications may be taken for the cure of Diseases; and the known vertues of fimple Medicaments, according as they have been delivered to us by the Antients, more certainly applyed; because these notions come nearest their doctrine, and consequently will more facilitate a practice deduced therefrom. This Doctrine I have also illustrated with some few cases in Physic; see the Treatise.

A Theory of Health and Diseases being briefly laid down, as they relate to the humours; we proceed to enumerate

the known effects of our Spaw Waters: concerning the particulars, fee also the Treatise.

This also being dispatcht; the natures and properties of each Ingredient is proposed to be examined: And because nothing is new therein, which the Antients have not well accounted for, but the growing Salts of the Niter of Limetone, and abortive Vitriol, we insist chiefly upon the examination of these two.

And affirm, as the perpetual properties of them, that they two alone, of all the Minerals in Nature, every where petrify, as well as within our Bodies, as without us; and that it will be hard to find a third thing in nature that does fo.

That Petrification is best explained by Magnetism: and that as Iron toucht with a solution of blew Vitriol immediately attracts the Copper and simply petrifies upon it; so do the teeth of some men (the only naturally naked bones of the body) attract the abovesaid petrifying juices contained in meats and drinks. But of this I purpose to discourse elsewhere more at large.

That these two Lapidiscent Juices of the Spaw Waters are the only efficient, and in good part the material Causes too of the Stone in Man and other Animals; crude humours, being occasionally more or less implicated, as they more or less abound in bodies, and wrapped up in the coition of the Lapidescent Juices; which thing Holly Wood does well illustrate; it being observed above any fort of wood, most inclined to petrification; because of its abounding with a viscous Humour; which is the Birdlime in use.

And because it may be objected, that many are troubled with the stone, and but sew that drink of the Span waters; I answer, that in this sense, all waters are Spaws, but much more such as are so denominated: as all the well waters of this City, and England do testisse, and therefore no man upon this account is free from the Stone; and whoever shall arrentively

attentively examine the Urine of Mankind, will find none free; unless the strumous and gouty; of which more I design elsewhere.

The Examination of Van Helmont's Doctrine about the Stone; and the Arguments for this which I have laid down, I omit, and refer to the Treatife.

If Iron be in the calcined Calculus Humanus the Loadftone, if carefully applyed, will extract it, and demonstrate it to us; as, in truth, it hath often done, when I have applyed it for that purpose: And if Limestone, the Calcination also is necessary; because otherwise the Fat will hinder the Acids to work on it; but a calcined bone will wholly be dissolved by any Acid.

Having dispatcht these things, we come to the Medicinal uses of the *Spaw* Waters in *England*; which we examine upon the Doctrines of other Writers of our English *Spaws*; viz. choosing out the particulars wherein they mostly agree.

As Hypochondriae Melancholy; an ill habit of body from any chronical Difease, as long Agues, the Scurvy, &c. The stone of the Kidnies and Bladder; the Gout, Worms, Barrenness of Women, &c.

The excellency of the waters in the first case is deduced at large, from the cause of that disease; which we take to be, too great a fullness of Chyle. That they are less fit, and not to be given to cachectic people, without great Caution and Advise: that they are not to be used in the Stone and Gout, which two Diseases they can no ways help, but by accident: the reason of the Gout being from a stop and dejection or coition of some stony Particles upon the Membranes of the bones in the more narrow passages of the Joynts

That Steel hath been of old noted as infamous for caufing barrenness in women: which ill Character of that Medicine I doubt is almost forgot in this Age; and that therefore

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therefore abortive Vitriol (the grand Ingredient of atramentous Waters) ought to be much more suspected in that case. Altho the natural hot Waters, outwardly used in that have been, by the same antient Authors, as much samed for the contrary good effect upon women

The use of Oyntments before and after Bathing to be brought into use again: and the debauch of staying long in the hot waters, as it is now practised with us, to be avoided, &c.

Nonvelle Maniere de Fortifier les places par Monfieur Blondel, &c. a la Haye, 1684.

THE Author having confidered the Art of Fortification as it is at present practised, finds it not to have received proportionable improvements to the Art of Attacquing. appears fufficiently in the fuccess of the K. of France, who usually makes himself master of these Towns in 10 days, which formerly were held capable of refifting as many Months. There is therefore laid down a new way of Fortification, which may take away from the Besiegers, the advantages they draw from their number of Men and Cannon; and give the Besieged room for the making use of more Cannon, and supplying the want of men. This is principally done by a vast inlargement of the Flancs, and Demigorges fo as to be capable of three very large Batteries one over another, and sometimes a Cavalier at top, all which in some Figures may hold 100 or 120 Cannon, sufficient to difmount any Battery that may be raised on the Contrescare. For the better explaining the Work, there are 12 Tables added. The 1. is to shew the practise upon all forts of Angles of Poligons given, the 2. 3. 4. and 5. contain part of fever al forts of Poligons fortified after this method the Plane of a Tenaille made large, and representing exactly all the parts of this Fortification. The 7th is the same Plane with its profile. The 8th. is a Table for calculating the Angles in feveral Poligons fortified after this manner. The 9th is a Table for calculating the lines in the same Polizons.

roth, is to shew the easiness there is in reducing other Fortistications (provided they have second Flancs) to this manner, without altering the Face of the Bastion, the Motes, or the Outworks. The 1sth, is the Plane of the City of Dunkirk, with the Antient Fortistications, upon which are placed also the new ones (of the Author) that both Methods may be the better compared together. The 12th, is a Plane of the City of Mastricht and its old Fortiscations but reform'd after this new manner.

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The Breviat of this Book is not mention'd in the Contents, because it was thought at the time when the first sheet was printing, the preceding Discourses would have been sufficient for the Quantity of paper usually allow'd for each of these Tracts.

OXFORD,

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